

YEROTH-ERP-3.0 | SOFTWARE-SYSTEM PRODUCT SHEET

YEROTH-ERP-3.0 is an **ERP software-system** with 5 **user roles, and types:**

- 1) « Administrator »
- 2) « Manager »
- 3) « InventoryStockManager »
- 4) « Cashier »
- 5) « StoreKeeper ».

YEROTH-ERP-3.0 features:

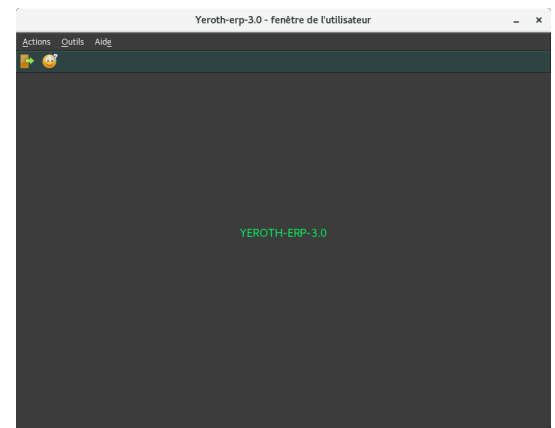
- 1) inventory-stock-management
- 2) alerts over stock-quantity, and, time-period
- 3) sale-management (stock-checkout, etc.)
- 4) customer-relationship-management
- 5) business dashboard
- 6) user-, and role-administration.

YEROTH-ERP-3.0 is:

- 1) lighter, and, faster, in memory-usage
- 2) easier, and, intuitiver, in its use
- 3) multi-sites (enabled).

YEROTH-ERP-3.0's runtime memory usage test, and, software-maintenance is realized using the latest software-analysis technology, like, e.g.: **Txl, valgrind**.

YEROTH-ERP-3.0 generates financial reports for use in accounting software, like, e.g.: **sage-accounting**.



The welcoming window of **YEROTH-ERP-3.0**

OPERATIONS

Point-of-Sale Hardware

- ✓ Barcode scanner
- ✓ Thermal printer, etc.



Database Management Systems

- ✓ MySQL



Operating Systems

- ✓ Linux-Debian



YEROTH-ERP-3.0 | ERP POINT-OF-SALE RECOMMENDED HARDWARE

This document describes the recommended hardware for YEROTH-ERP-3.0's customers. The total cost of recommended hardware is about "1 283 000" FCFA.

1 Barcode Scanner

We recommend, but not exclusively, the use of the following barcode scanner: **" Xfox FJ-5 USB Plug and Play Automatic Barcode Scanner "** (approx. 55 000 FCFA).



Barcode Scanner

2 Thermal Printer

YEROTH-ERP-3.0 currently only works with the following thermal printer: **" Epson TM-T20 Point of Sale Thermal Printer "** (approx. 180 000 FCFA).



Thermal Printer

3 Cash Drawer

YEROTH-ERP-3.0 currently only works with the following cash drawer: **" HP QT457AT "** (approx. 155 000 FCFA).



Cash Drawer

4 Touch Screen Monitor

We recommend, but not exclusively, the use of the following touch screen monitor: **" ASUS 15.6" LCD Monitor (VT168H) "** (approx. 215 000 FCFA).



Touchscreen Monitor

5 Computer

We recommend, but not exclusively, the use of the following computer: **" Lenovo Thinkcentre M710 Small Form Factor (SFF) "** (approx. 678 000 FCFA).



Computer

INFORMATION BROCHURE OF THE ERP SOFTWARE-SYSTEM

YEROTH-ERP-3.0

Xavier NOUMBISSI NOUNDOU, Ph.D. (ABD)

1 Developer Biography

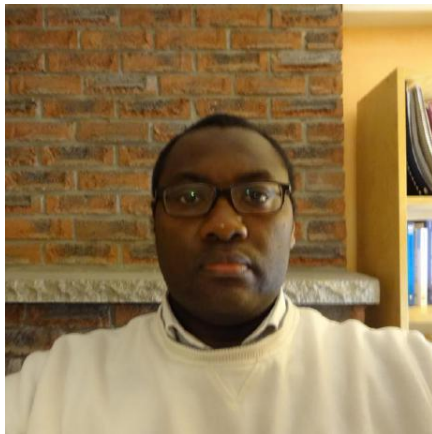


Figure 1: Portrait of Xavier

Xavier NOUMBISSI NOUNDOU is a Cameroonian, and was born in 1983. He holds a Master's degree in Computer Science (*Diplom-Informatiker [DIPL.-INF.]*) of the **University of Bremen** in Germany.

During his DIPL.-INF.-studies at the University of Bremen, Xavier worked part-time, for 25 months, as, Software Developer for **Bergmann Automaten GmbH**, located in Hamburg, at Rellingen, in Germany.

Xavier worked as Junior Software Developer for 21 months at **SIEMENS Medical Solutions** (Erlangen, Germany) just after obtaining his Master's degree in Computer Science.

Xavier leaves "SIEMENS Medical Solutions" in July 2009 to pursue doctoral studies (Ph.D. in Software Engineering) in the area of research "static code-analysis" in the research laboratory **Watform** of the **University of Waterloo**.

In 2012, Xavier worked 8 months as a Ph.D.-graduate intern at **IBM Toronto Lab** in Markham (Ontario, Canada). Xavier was in the JIT compilation team of *Java J9*.

In March 2015, Xavier leaves the research laboratory "Watform", to found the computer system startup-company **YEROTH R&D**.

Xavier reads, writes, and talks fluently in English, French, and German.

2 Introduction

YEROTH-ERP-3.0 is an **Enterprise Resource Planing (ERP)** software-system.

Users of YEROTH-ERP-3.0 could have the following roles:

- 1) « Administrator »
- 2) « Manager »
- 3) « InventoryStockManager »
- 4) « StoreKeeper »
- 5) « Cashier ».

YEROTH-ERP-3.0 allows for stock and sales management tasks listed in Table 1, depending on user role.

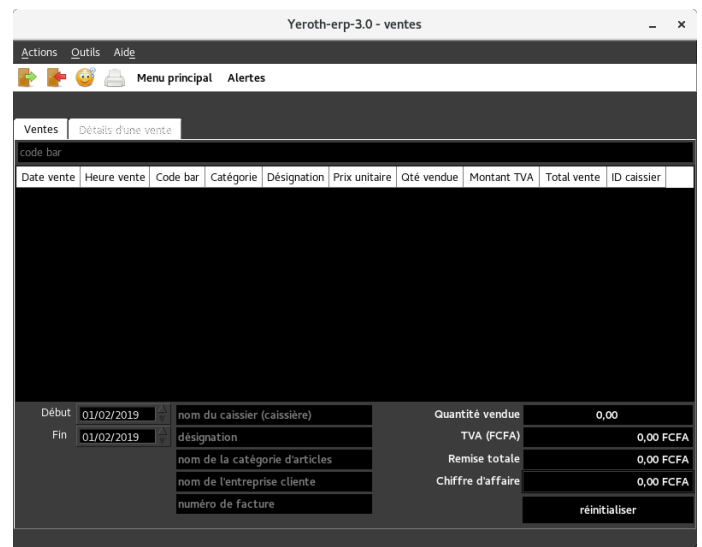


Figure 2: Sale-information window

3 Advantages of YEROTH-ERP-3.0

- 1) YEROTH-ERP-3.0 is 100% stable
- 2) YEROTH-ERP-3.0 has an alert system with two types of alerts: alerts based on stock-quantity, and time-period alerts
- 3) users have the choice between small size receipts, and, bigger size receipts ("A4")
- 4) YEROTH-ERP-3.0 runs on the Linux operating system, because Linux is stable, performant, and less vulnerable to security breaches in comparison to other operating systems

Tasks	« Manager »	« InventoryStockManager »	« StoreKeeper »	« Cashier »
insert stock	x	x		
view stock	x	x	x	x
modify stock	x	x	x	
transfer stock	x	x	x	
modify stock management strategy (e.g: « FIFO », etc.)	x	x		
checkout articles–stocks	x			x
view stock transfers	x	x	x	
view sales information	x			

Table 1: YEROTH–ERP–3.0 functions–tasks, and associated users–roles.

- 5) YEROTH–ERP–3.0 has an user interface “Sales”, which helps the « Manager » to view sales information (Figure 2)
- 6) YEROTH–ERP–3.0 has an interface “Business–Dashboard” that generates pie and bar charts, from sales information, in PDF format, to help the « Manager » to take business–decisions.

4 Alert System

YEROTH–ERP–3.0 allows users to create two types of alerts:

- 1) alerts over stocks–quantities
- 2) alerts over time intervals (this helps for perissable articles and for sales discounts over a period of time).

4.1 Alerts over Stock–Quantity

Users with the roles « Administrator » or « Manager » could create alerts that will be triggered whenever a “pre–determined” stock–quantity will be reached.

For instance, Xavier (« Manager ») could create an alert for stock “mango” that will be triggered whenever stock “mango” quantity reaches 100; this alert will be sent, together with a message to user John (« StoreKeeper »).

4.2 Alerts over Time–Period

Users with roles « Administrator » or « Manager » could create alerts that will be triggered whenever a “pre–specified” “gregorian” calendar date will be reached.

For example, an alert with a message has to be sent to Paul (« Cashier ») when the date of November 18th is reached. The alert’s message specifies that a rebate of 20% has to be applied on every sale of the yoghourt ‘trèsbon’, during a time interval of 2 weeks.

5 Database Management System

YEROTH–ERP–3.0 uses *MySQL* as the standard DBMS. *MySQL* is very stable, performant, and free.

6 Tasks of the User–Role « Administrator »

The main tasks of a user with the role « Administrator » among others are:

{*create, modify, list, delete*} → {an alert, a category of

articles, a customer account, a user account, a supplier account, a localisation}.

7 Conclusion

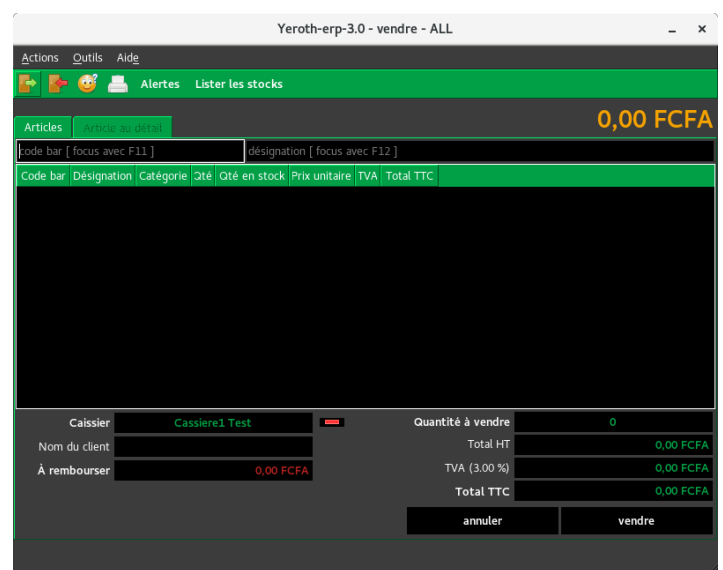


Figure 3: User–window to checkout articles–stocks.

Figure 3 illustrates the window for selling articles.

YEROTH–ERP–3.0 does not perform accounting. YEROTH–ERP–3.0 is available in the English and French languages.